Vijaya Lakshmi Chintapalli

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EDUCATION

Youngstown State University — Ohio, USA
Master of Computer Science, GPA – 3.90 — Aug 2023 – Dec 2024

Prakasam Engineering College — Kandukur, India
Bachelor of Information Technology, GPA – 3.80 — Jun 2017 – July 2021

SKILLS

- **Programming Languages:** Java, Python, C, C++
- **Frontend Technologies:** HTML, CSS, JavaScript, React.js, Flutter (cross-platform)
- **Backend Technologies:** Java (Spring Boot), Python (Django/Flask), Node.js, Express.js
- **Databases:** SQL, MySQL, PostgreSQL, MongoDB, NoSQL
- **Tools & Platforms:** VS Code, Eclipse, Postman, Jupyter Notebook, Git, AWS (basics), Jira
- **Deployment & DevOps:** Linux, Docker, CI/CD pipelines, Cloud platforms (AWS basics)
- **Computer Science Fundamentals:** Data Structures, Algorithms, Object-Oriented Programming (OOP), Problem Solving, Operating Systems
- **AI & Machine Learning:** Scikit-learn, TensorFlow, Keras, OpenCV, NumPy, Pandas, Matplotlib, Natural Language Processing (NLP), Generative AI (LLMs), Prompt Engineering, Responsible AI, Machine Learning

EXPERIENCE

Full Stack Software Engineer — Crestsoft Inc — **Jan 2025 — Present**

- Developed and enhanced full-stack web applications using React.js, Spring Boot.
- Collaborated with the data science team to deploy ML models to production using Flask REST APIs, monitored performance, and handled versioning.
- Built AI-powered features (e.g., chatbots, intelligent search) using spaCy, scikit-learn, and integrated them into web UIs.
- Designed and documented RESTful APIs and handled secure data flow using MySQL and PostgreSQL.
- Automated deployment processes using Docker and Linux, contributing to CI/CD workflows in Agile sprints.
- Integrated monitoring and error handling on Linux production servers, ensuring high availability.

Challenges:

1. **Bridged Frontend-Backend Gaps in Complex Applications:** Refactored mismatched API contracts between React.js components and Spring Boot/Python APIs, reducing frontend errors by 40%.
2. **Secured RESTful APIs with Role-Based Access Control (RBAC):** Implemented token-based authentication using JWT and verified user roles at each endpoint in Spring Boot and Flask backends.

IT Intern — Crestsoft Inc — **Sep 2024 – Dec 2024**

- Supported front-end development using HTML, CSS, JavaScript, and React.js components.
- Participated in backend API development with Java (Spring Boot) and Python (Flask/Django).
- Assisted in writing optimized SQL queries and managing MySQL databases.
- Collaborated using Git, followed Agile practices, and helped resolve bugs using core CS principles.

- Contributed to basic deployment setup using Docker and Linux.

Challenges:

1. **Debugged Real-World Bugs Using Agile Sprint Cycles:** Traced front-end logic errors and backend 500s using browser dev tools and logs; wrote fixes under mentorship using core CS principles.
2. **Standardized Database Queries to Improve Consistency:** Converted scattered raw SQL into parameterized reusable functions for MySQL, enhancing backend maintainability and security.

Software Engineer — Mphasis **July 2021 – July 2023**

- Designed and implemented secure, scalable backend services using Java (Spring Boot) and Node.js (Express.js).
- Developed responsive and user-friendly interfaces using React.js and modern web standards, optimized for performance.
- Handled production data and built queries across SQL (PostgreSQL) and NoSQL (MongoDB) environments.
- Integrated REST APIs with JWT/OAuth2 authentication and ensured compliance with banking data regulations. mj
- Built and deployed services via CI/CD pipelines using Jenkins, managed containers using Docker, and performed troubleshooting on Linux servers.

Challenges:

1. **Scaled Backend Services to Handle High Throughput:** Rewrote service handlers in Spring Boot to use asynchronous processing for large request volumes, reducing server response time.
2. **Integrated Frontend Apps with Secure Auth Flows:** Added JWT/OAuth 2.0 based login flows in React.js + Express.js stack for secure user sessions across multiple modules.
3. **Resolved CI/CD Build Failures Across Jenkins Pipelines:** Debugged Jenkins build breakages caused by version mismatches, Dockerfile bugs, or misconfigured env vars—reduced build error rate by 60%.

CERTIFICATIONS:

- Cloud Computing 101 | Generative AI , aws educate — Mar '25
- Data Science Methodology | What is Data Science , Coursera (IBM) — May '20
- Python Data Structures | Programming for Everybody , Coursera (Michigan) — Jul '20
- Databricks Fundamentals | Generative AI Fundamentals Databricks — Jul '20
- Prompt Design in Vertex AI | Responsible AI | LLM| Generative AI , Google Cloud — Mar '25
- Java | Software Engineer | SQL , Hackerrank — Feb '25
- scientific computing with python , FreeCodeCamp — Jan '25

PROJECTS:

1. **Medicare Appointment Booking System – Django | Bootstrap | SQLite | Render**
   Live Demo: https://medicareapp-1-qs13.onrender.com/
   GitHub: github.com/vijaya-chintapalli/MedicareApp
2. **Sudoku Solver with GUI – Java, Swing**
   GitHub: github.com/vijaya-chintapalli/Sudoku-Solver
3. **OnlineCodeEvaluator – JavaScript**
   GitHub: https://github.com/vijaya-chintapalli